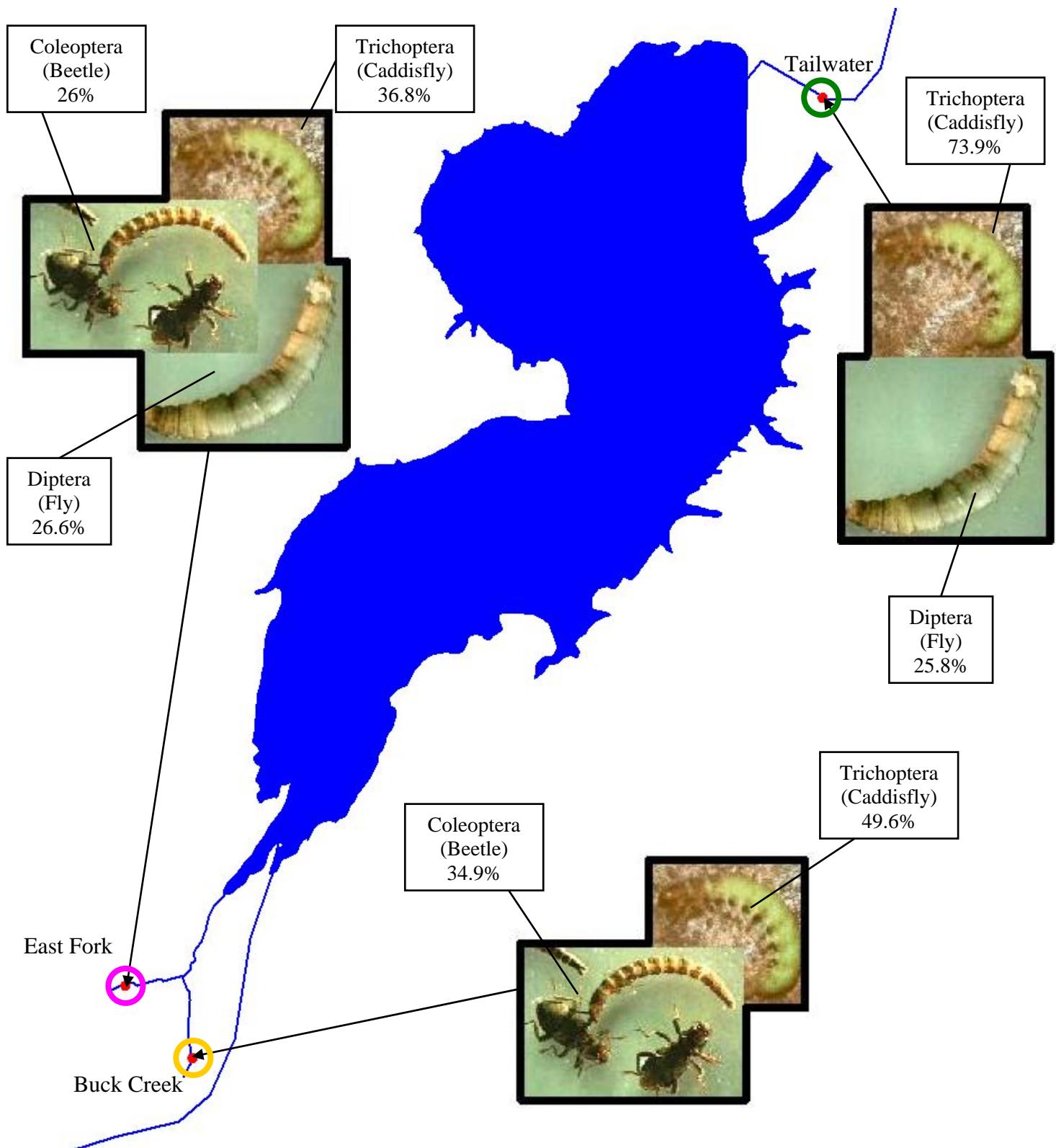


Aquatic Insects' Community Structure
C. J. Brown Lake Analysis
August 30-31, 2004

Relative abundance of dominant taxa found at the sites shown below.



Community Metrics *	C. J. Brown Lake		
	Tailwater	Buck Creek	East Fork
Collection Date	8/30/04	8/31/04	8/30/04
Total Number of Taxa	25	27	28
% Contribution of Dominant Taxa	80	77	53
Modified Hilsenhoff Biotic Index (0, good – 10, bad)	4.95	4.19	4.78
Shannon-Wiener Index	2.13	2.42	2.89
Number of Ephemeroptera Taxa	0	6	4
% Ephemeroptera Taxa (Abundance)	0	1	10
Number of Plecoptera Taxa	0	0	0
% Plecoptera Taxa (Abundance)	0	0	0
Number of Trichoptera Taxa	5	3	4
% Trichoptera Taxa (Abundance)	67	49	36
Number of EPT Taxa	5	9	8
% EPT Taxa	67	51	47
Number of Dipteran Taxa	14	12	16
% Dipteran Taxa	23	14	26
Number of Chironomid Taxa	13	9	13
% Chironomid Taxa	23	10	22
Number of Tanytarsini Taxa	1	3	3
% Tanytarsini Taxa	0	0	3
Number of Orthocladiinae Taxa	4	5	6
% Orthocladiinae Taxa	3	9	7
% Cricotopus + Chironomus/Total Chiron.	1	9	4
Number of Dipteran Taxa – Tanytarsini and other Non-Insect Taxa	15	12	14
% Dipteran Taxa - Tanytarsini and other Non-Insect Taxa	32	14	24
Ratio of EPT to Chiron. Abundance	2.91	5.14	2.13
Percent Tolerant Organisms	7	0	2
Numbers of Individuals / m ²	22,751	7,868	884

5 Most Abundant Taxa at Tailwater
1. Cheumatopsyche sp. (Trichoptera) 37.3%
2. Ceratopsyche morosa group sp. (Trichoptera) 19%
3. Polypedilum flavum sp. (Diptera) 11.9%
4. Hydropsyche simulans (Trichoptera) 9.8%
5. Hydropsyche betteni (Trichoptera) 7.2%

5 Most Abundant Taxa on Buck Creek
1. Hydropsyche betteni (Trichoptera) 27.5%
2. Optioservus sp. (Coleoptera) 18.7%
3. Cheumatopsyche sp. (Trichoptera) 13.1%
4. Optioservus ovalis (Coleoptera) 9.5%
5. Ceratopsyche morosa group sp. (Trichoptera) 9%

5 Most Abundant Taxa on East Fork
1. Optioservus sp. (Coleoptera) 17.6%
2. Ceratopsyche morosa group sp. (Trichoptera) 12.7%
3. Polypedilum flavum sp. (Diptera) 9%
4. Cheumatopsyche sp. (Trichoptera) 7.4%
5. Hydropsyche sp. (Trichoptera) 6.5%
5. Ceratopsyche slossonae (Trichoptera) 6.5%

* Based on 4 replicate surber samples
Substrate sampled – small stones